

Franzell

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Line 762

7-14-69

TAS 3460A-14

T.H. 212

JCT. T.H. 694 TO ST. CROIX RIV.

S.P. 8214-47

JULY 1969

OFFICE OF
TRANSPORTATION PLANNING

MINNESOTA HIGHWAY DEPARTMENT

Office Memorandum

DEPARTMENT HIGHWAY

TO : Paul G. Velz
Road Design Engineer

DATE: July 15, 1969

FROM : Douglas H. Differt, Chief
Traffic Analysis Section

SUBJECT: T.H. 212; Jct. T.H. 694 to St. Croix River (E. State Line)
SP 8214-47
TAS 3460A-14

The Traffic Analysis Section transmits this report in response to K. McRae's May 14, 1969 request for the 1985 ADT, DHV, and HCADT for the project location shown on the map on page 2.

The estimated 1985 ADT volumes are shown on the maps on pages 3 and 4.

For each segment numbered on the maps on pages 3 and 4, the following data are tabulated on pages 5-10:

- (a) Total ADT
- (b) Vehicle Type Distribution
- (c) Total HCADT

Segment 32, with a 1985 ADT of 37,800, has the highest 1985 ADT on the project section of T.H. 212. This segment has a 1968 ADT of 9,475 vehicles.

The basic data, method and assumptions used to prepare this report are presented on page 11.

Douglas H. Differt

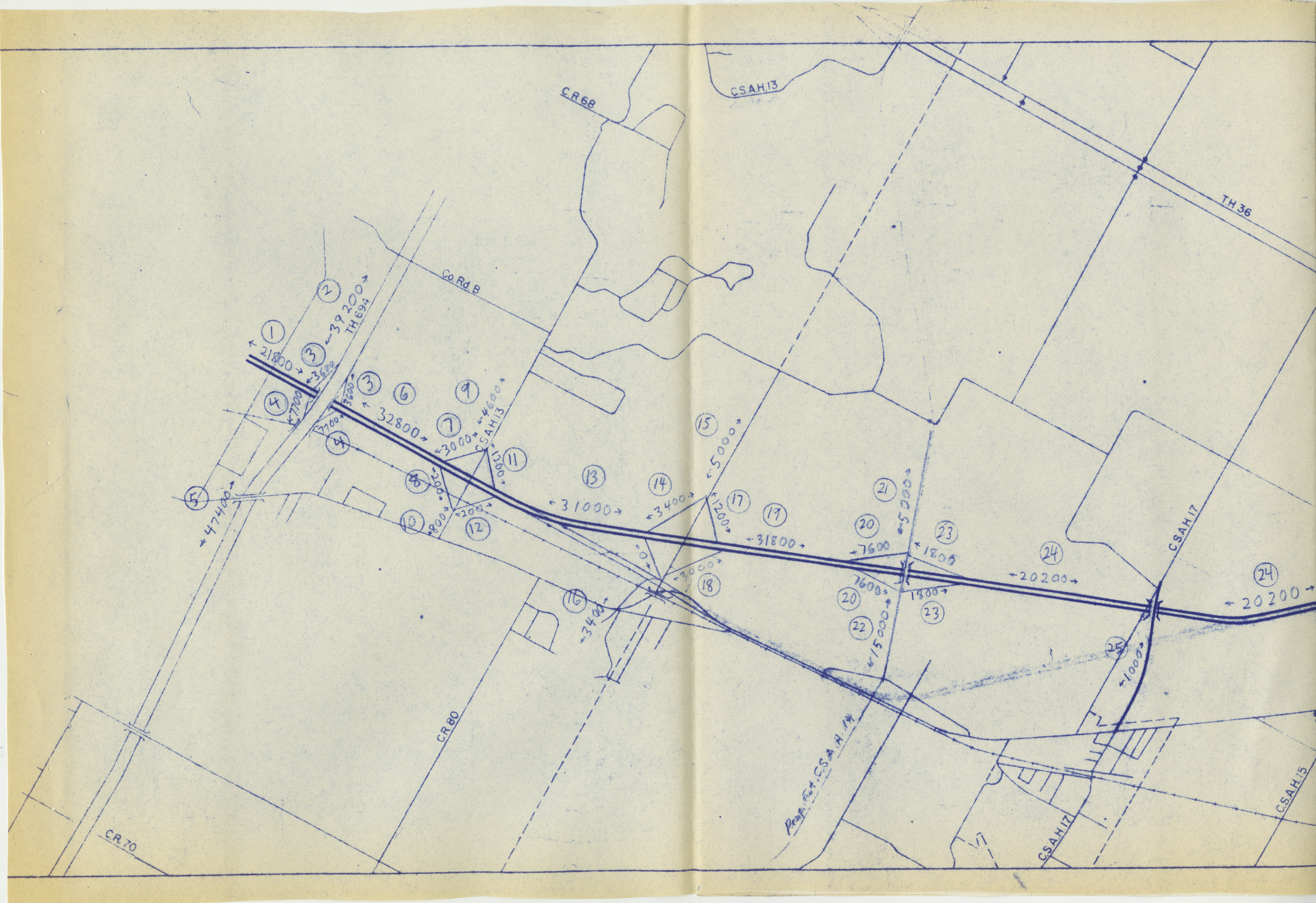
Douglas H. Differt, Chief
Traffic Analysis Section

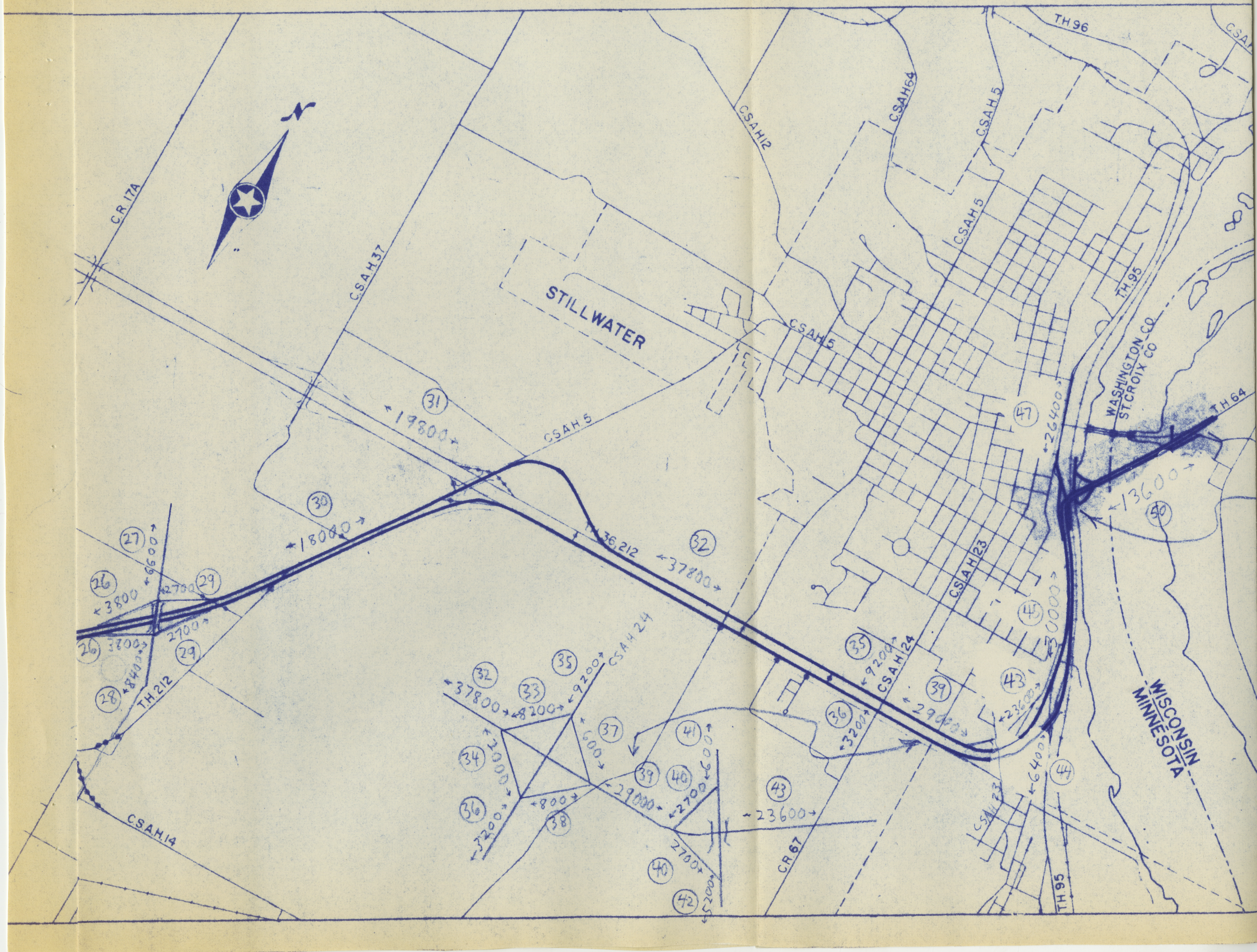
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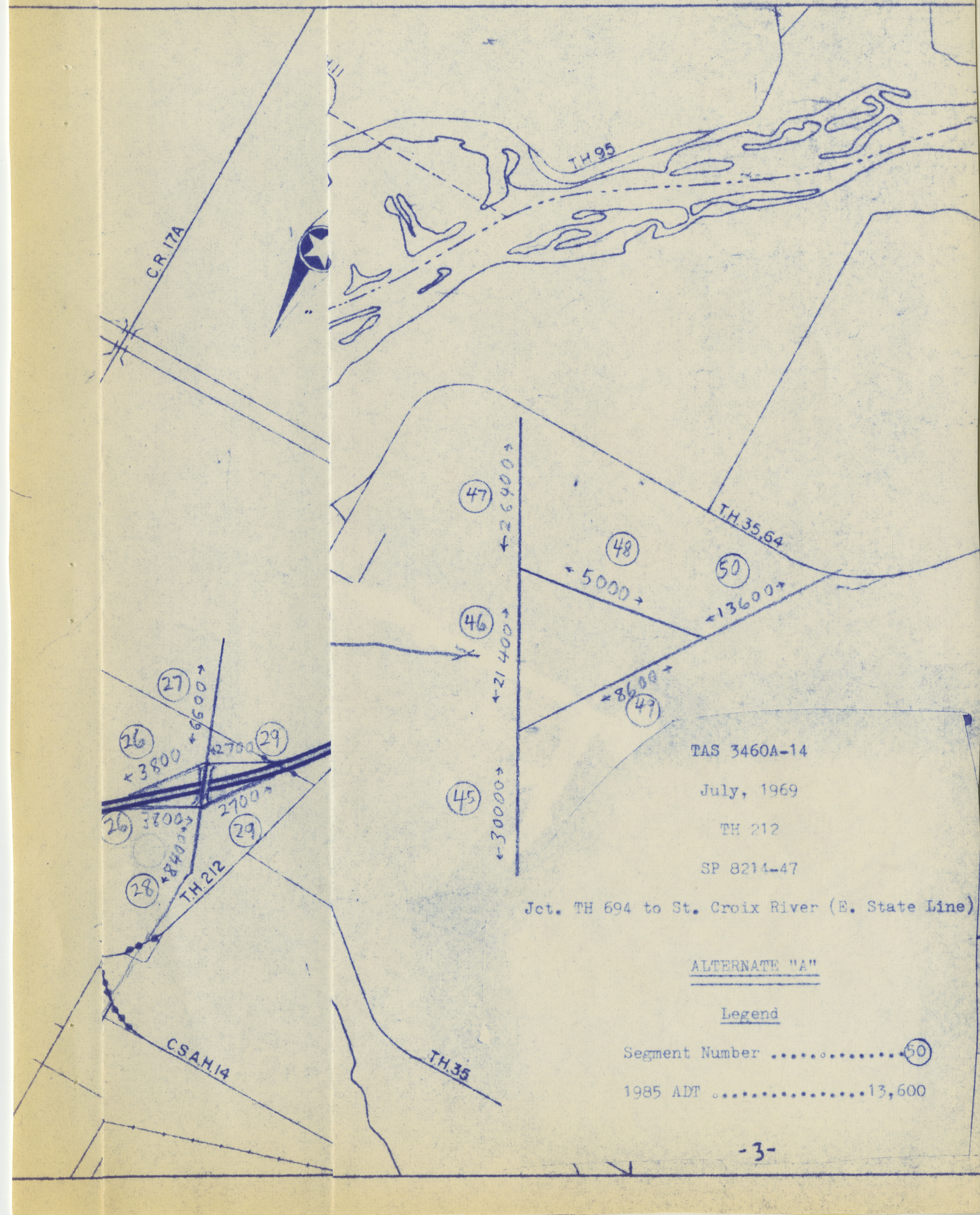
STATE OF MINNESOTA
DEPARTMENT OF HIGHWAYS
WORK MAP

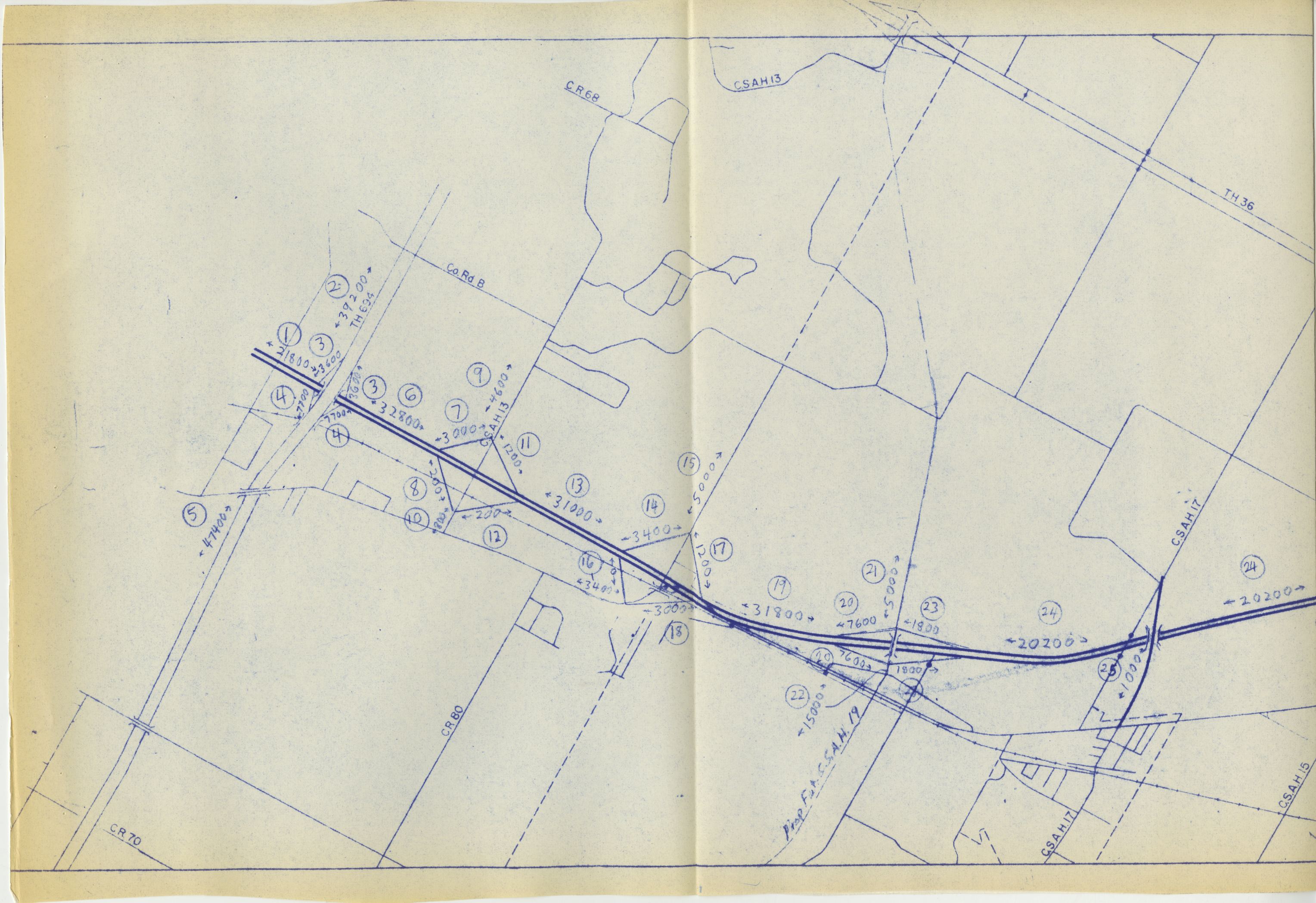
Project Location
SP 8214-47

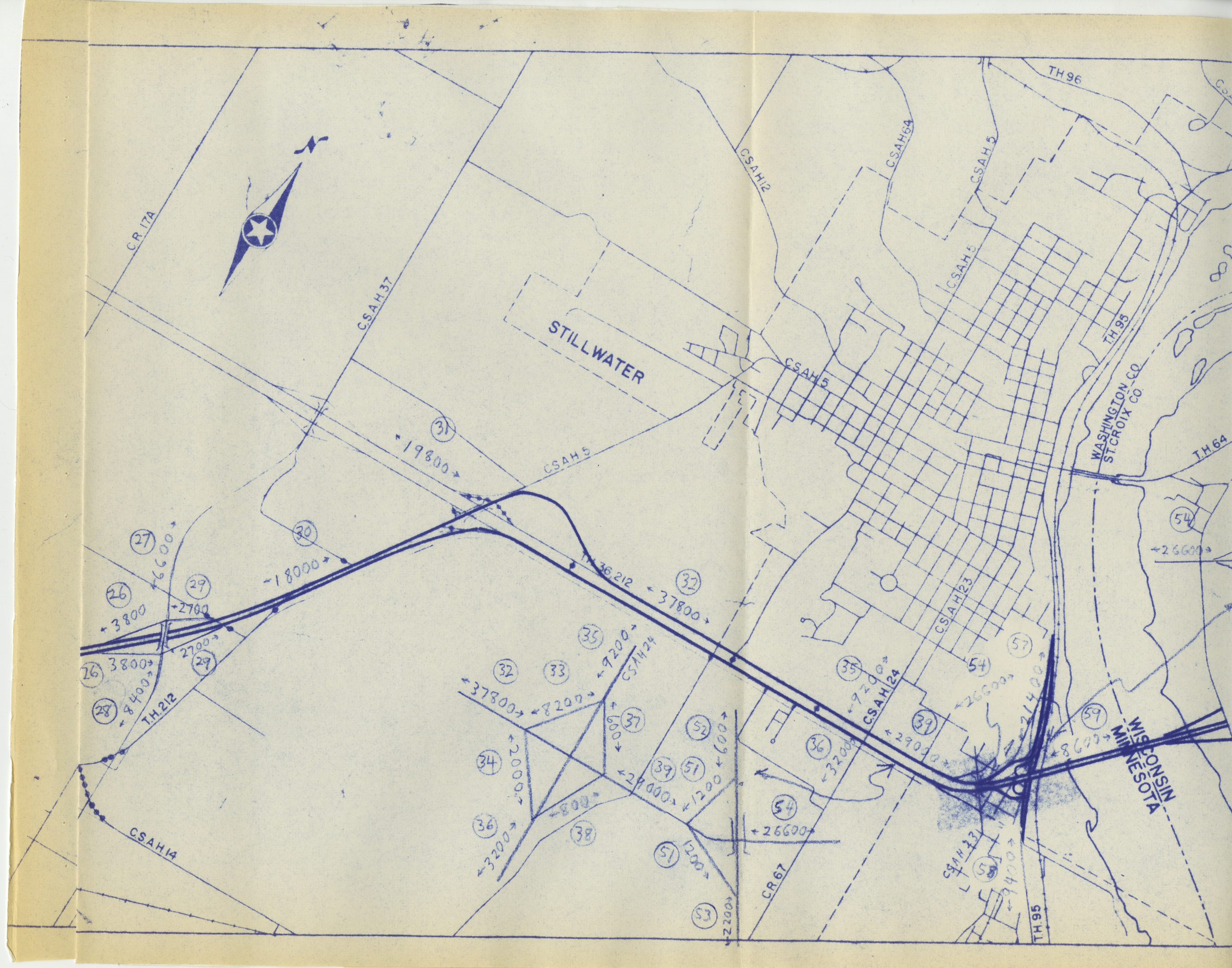












TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 1 OF 6

FOR

T.H. 212 S.P. 8214-47 LENGTH ----- MILES
 COUNTY Washington LOCATION Jct. TH 694 to St. Croix River
(E. State Line)

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 1 THROUGH 11 AS
 DEFINED ON ATTACHED INDEX MAPs on pages 3 and 4 of Alternates A and B, respectively.

VEHICLE # TYPE	SEGMENT NUMBER										
	1	2	3	4	5	6	7	8	9	10	11
0	20560	37150	3424	7278	44858	30978	2861	191	4373	751	1143
1	601	698	87	230	984	910	88	6	142	31	35
2	131	507	26	73	601	227	17	1	25	3	7
3	101	95	3	8	105	112	4	-	8	2	2
4	49	217	25	27	221	100	4	-	8	2	2
5	100	328	4	8	336	111	1	-	2	-	1
6	258	205	31	76	295	362	25	2	42	11	10
TOTAL ADT	21800	39200	3600	7700	47400	32800	3000	200	4600	800	1200
TOTAL H. COMM. ADT	1240	2050	176	422	2542	1822	139	9	227	49	57
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

* VEHICLE TYPE CODE

0 = PASSENGER CARS AND 4 TIRE TRUCKS
 1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
 2 = SINGLE UNIT-3 AXLE TRUCKS
 3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
 4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
 5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
 6 = BUSES AND TRUCKS WITH TRAILERS

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 2 OF 6

FOR

T.H. 212 S.P. 8214-47 LENGTH ----- MILES
 COUNTY Washington LOCATION Jct. TH 694 to St. Croix River
(E. State Line)

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 12 THROUGH 22 AS
 DEFINED ON ATTACHED INDEX MAPs on pages 3 and 4 of Alternates A and B, respectively

VEHICLE # TYPE	SEGMENT NUMBER										
	12	13	14	15	16	17	18	19	20	21	22
0	191	29260	3223	4745	3262	1138	2878	30053	7159	4689	14134
1	6	857	107	155	92	37	81	868	209	147	410
2	1	217	9	13	9	3	8	219	41	30	81
3	-	110	7	11	5	3	4	110	28	19	54
4	-	98	9	12	5	3	5	97	37	25	72
5	-	111	2	3	2	1	2	112	41	30	81
6	2	347	43	61	25	15	22	341	85	60	168
TOTAL ADT	200	31000	3400	5000	3400	1200	3000	31800	7600	5000	15000
TOTAL H. COMM. ADT	9	1740	177	255	138	62	122	1747	441	311	866
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

* VEHICLE TYPE CODE

0 = PASSENGER CARS AND 4 TIRE TRUCKS
 1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
 2 = SINGLE UNIT-3 AXLE TRUCKS
 3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
 4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
 5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
 6 = BUSES AND TRUCKS WITH TRAILERS

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 3 OF 6

FOR

T.H. 212 S.P. 8214-47 LENGTH ----- MILESCOUNTY Washington LOCATION Jct. TH 694 to St. Croix River

(E. State Line)

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 23 THROUGH 33 AS

DEFINED ON ATTACHED INDEX MAPs on pages 3 and 4 of Alternates A and B, respectively.

VEHICLE * TYPE	SEGMENT NUMBER											
	23	24	25	26	27	28	29	30	31	32	33	
0	1720	19175	938	3559	6184	7872	2532	17121	18823	35944	7765	
1	38	526	29	122	197	255	88	458	429	887	205	
2	7	151	6	20	40	49	13	137	118	255	41	
3	5	64	4	18	26	34	12	52	25	77	33	
4	7	37	5	16	33	40	10	25	80	105	33	
5	7	44	6	17	40	47	10	30	261	291	41	
6	16	203	12	48	80	103	35	177	64	241	82	
TOTAL ADT	1800	20200	1000	3800	6600	8400	2700	18000	19800	37800	8200	
TOTAL H. COMM. ADT	80	1025	62	241	416	528	168	879	977	1856	435	
TOTAL DHV												
DIRECTIONAL DISTRIBUTION												

* VEHICLE TYPE CODE

0 = PASSENGER CARS AND 4 TIRE TRUCKS
 1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
 2 = SINGLE UNIT-3 AXLE TRUCKS
 3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
 4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
 5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
 6 = BUSES AND TRUCKS WITH TRAILERS

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 4 OF 6

FOR

T.H. 212 S.P. 8214-47 LENGTH ----- MILESCOUNTY Washington LOCATION Jct. TH 694 to St. Croix River

(E. State Line)

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 34 THROUGH 39 AS

DEFINED ON ATTACHED INDEX MAPs on pages 3 and 4 of Alternates A and B, respectively.

VEHICLE * TYPE	SEGMENT NUMBER											
	34	35	36	37	38	39						
0	1894	8711	3030	568	758	27511						
1	50	230	80	15	20	667						
2	10	46	16	3	4	211						
3	8	37	13	2	3	41						
4	8	38	13	3	3	70						
5	10	46	16	3	4	247						
6	20	92	32	6	8	153						
TOTAL ADT	2000	9200	3200	600	800	29000						
TOTAL H. COMM. ADT	106	489	170	32	42	1389						
TOTAL DHV												
DIRECTIONAL DISTRIBUTION												

* VEHICLE TYPE CODE

0 = PASSENGER CARS AND 4 TIRE TRUCKS
 1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
 2 = SINGLE UNIT-3 AXLE TRUCKS
 3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
 4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
 5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
 6 = BUSES AND TRUCKS WITH TRAILERS

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 5 OF 6

FOR

T.H. 212 S.P. 8214-47 LENGTH ----- MILESCOUNTY Washington LOCATION Jct. TH 694 to St. Croix River(E. State Line)

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 40 THROUGH 50 AS

DEFINED ON ATTACHED INDEX MAP on page 3 of Alternate A

VEHICLE # TYPE	SEGMENT NUMBER										
	40	41	42	43	44	45	46	47	48	49	50
0	2556	569	4923	22499	6088	28587	20345	25096	4751	8242	12993
1	67	15	129	533	220	753	545	674	129	208	337
2	14	3	27	183	42	225	186	230	44	39	83
3	11	2	21	19	8	27	20	25	5	7	12
4	11	2	21	48	12	60	39	48	9	21	30
5	14	3	27	219	25	244	197	243	46	47	93
6	27	6	52	99	5	104	68	84	16	36	52
TOTAL ADT	2700	600	5200	23600	6400	30000	21400	26400	5000	8600	13600
TOTAL H. COMM. ADT	144	31	277	1101	312	1413	1055	1304	249	358	607
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

* VEHICLE TYPE CODE

0 = PASSENGER CARS AND 4 TIRE TRUCKS
 1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
 2 = SINGLE UNIT-3 AXLE TRUCKS
 3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
 4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
 5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
 6 = BUSES AND TRUCKS WITH TRAILERS

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 6 OF 6

FOR

T.H. 212 S.P. 8214-47 LENGTH ----- MILESCOUNTY Washington LOCATION Jct. TH 694 to St. Croix River(E. State Line)

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 51 THROUGH 59 AS

DEFINED ON ATTACHED INDEX MAP on page 4 of Alternate B.

VEHICLE # TYPE	SEGMENT NUMBER									
	51	52	53	54	55	56	57	58	59	
0	1136	569	2083	25339	9139	571	20364	8941	8203	
1	30	15	55	607	210	13	586	323	213	
2	6	3	11	199	79	5	161	62	51	
3	5	2	9	31	10	1	24	12	13	
4	5	2	9	60	22	1	46	18	18	
5	6	3	11	235	107	7	171	37	35	
6	12	6	22	129	33	2	48	7	67	
TOTAL ADT	1200	600	2200	26600	9600	600	21400	9400	8600	
TOTAL H. COMM. ADT	64	31	117	1261	461	29	1036	459	397	
TOTAL DHV										
DIRECTIONAL DISTRIBUTION										

* VEHICLE TYPE CODE

0 = PASSENGER CARS AND 4 TIRE TRUCKS
 1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
 2 = SINGLE UNIT-3 AXLE TRUCKS
 3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
 4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
 5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
 6 = BUSES AND TRUCKS WITH TRAILERS

Basic Data, Method, And Assumptions

The 1985 ADT and DHV is presented in TAS 639A-14 transmitted June 12, 1969.

The HCADT total is from the System "14" computer study. Based on vehicle classification counts taken in the study area, the total HCADT was distributed by vehicle type to produce the tabular data presented on pages 5 through 10.

Segments 1-19 in this report agree with Segments 1-19 presented in TAS 3460-14 transmitted May 1, 1969.

To obtain 1994 ADT, the traffic volumes in this report may be expanded by 30 percent.